

10/538860

JC17 Re PCT/PTO 14 JUN 2005

<b>TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97(b), 1.97(c), or 1.97(d)</b>		<b>Attny. Docket No. 2003B133C</b>	
<b>In Re Application of: Shaffer et al.</b>			
<b>U.S. Serial No. Not Yet Assigned</b>	<b>Filing Date June 14, 2005</b>	<b>Examiner Not Yet Assigned</b>	<b>Group Art Unit Not Yet Assigned</b>

Address to:  
**Assistant Commissioner for Patents**  
**Washington, D.C. 20231**

**37 CFR § 1.97(b)**

- ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

**37 CFR § 1.97(c)**

- ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); after three months of the date of entry of the national stage as set forth in § 1.491 in an international application; after the mailing of a first Office Action on the merits; or after the mailing of a first Office Action after the filing of a request for continued examination under § 1.114, but before the mailing date of:

1. a Final Action under § 1.113,
2. a Notice of Allowance under § 1.311, or
3. an action that otherwise closes prosecution in the application,

and is accompanied by either:

- ☐ the fee as set forth in § 1.17(p), or
- ☐ the following statement under § 1.97(e)(1): each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

**37 CFR § 1.97(d)**

- ☐ The Information Disclosure Statement submitted herewith is being filed after a Final Action under § 1.113, a Notice of Allowance under § 1.311, or an action that otherwise closes prosecution in the application, but before, or simultaneously with, the payment of the issue fee. Submitted herewith is the fee as set forth in § 1.17(p) and the following statement under 37 CFR § 1.97(e)(1): each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

**BEST AVAILABLE COPY**

Applicant hereby request consideration of the Information Disclosure Statement, USPTO form 1449, submitted herewith.

☒ Legible copies of the references are enclosed where required.

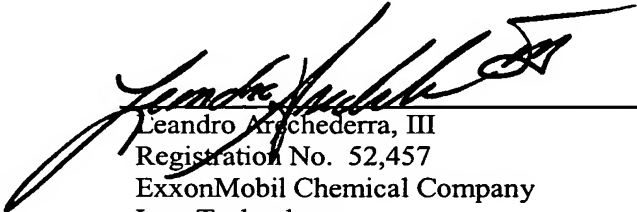
☐ This application is a:  
☐ Continuation / Divisional,  
☐ Continuation-in-Part,

of U.S.S.N. \_\_\_\_\_. Copies of the cited references are  
☐ enclosed; ☐ not enclosed. References are available in the parent application(s) if not enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required by this paper, or credit any overpayment, to Deposit Account Number 05-1712. A duplicate copy of this form is enclosed.

June 14, 2005

Date



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<b>INFORMATION DISCLOSURE STATEMENT</b>  <i>(Use several sheets if necessary)</i>				ATTY. DOCKET NO.		SERIAL NO.	
				2003B133C		10/330060	
				APPLICANT			
				Shaffer et al.			
				FILING DATE		GROUP	
June 14, 2005		Not Yet Assigned					
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2,474,571	06/28/49	Brakeley et al.	260	85.3	
	AB	2,494,585	01/17/50	Saylor, Jr.	260	85.3	
	AC	2,534,698	12/19/50	Calfee et al.	260	85.3	
	AD	2,548,415	04/10/51	Welch et al.	260	85.3	
	AE	2,603,626	07/15/52	Kolfenbach et al.	260	85.3	
	AF	2,607,764	08/19/52	Nelson et al.	260	85.3	
	AG	2,644,809	07/07/53	Saylor Jr.	260	85.3	
	AH	3,269,972	08/30/66	Banks et al.	260	32.2	
	AI	3,331,822	07/18/67	Kometani et al.	260	87.5	
	AJ	3,397,166	08/13/68	Schmidle et al.	260	33.6	
	AK	3,440,219	02/05/65	Wolff et al.	260	63	
	AL	3,470,143	09/30/69	Schrage et al.	260	82.5	
	AM	3,493,530	02/03/70	Sianesi et al.	260	33.2	
	AN	3,528,954	09/15/70	Carlson	260	87.5	
	AO	3,590,025	06/29/71	Tittle	260	92.1	
	AP	3,616,371	10/26/71	Ukihashi et al.	204	159.22	
	AQ	3,642,742	02/15/72	Carlson	260	87.5 A	
	AR	3,787,379	01/22/74	Ferren et al.	260	87.5 A	
	AS	3,919,183	11/11/75	Jager et al.	260	86.1 R	
	AT	3,996,281	12/07/76	Huber-Emden et al.	260	561 N	
	AU	4,042,634	08/16/77	Cope et al.	210	616	
	AV	4,100,225	07/11/78	Mueller	260	878 R	
	AW	4,107,417	08/15/78	Priola et al.	526	117	
EXAMINER				DATE CONSIDERED			
<b>*EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant							

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

2003B133C

SERIAL NO.

Not Yet Assigned  
10/538060

APPLICANT

Shaffer et al.

FILING DATE

June 14, 2005

GROUP

Not Yet Assigned

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	4,123,602	10/31/78	Ukihashi et al.	526	206	
	BB	4,166,165	08/28/79	Hisasue et al.	526	87	
	BC	4,194,073	03/18/80	McDaniel	526	98	
	BD	4,248,988	02/03/81	Halasa	526	141	
	BE	4,255,546	03/10/81	Süling et al.	526	206	
	BF	4,338,237	07/06/82	Sulzbach et al.	524	777	
	BG	4,381,387	04/26/83	Sulzbach	526	247	
	BH	4,424,324	01/03/84	Throckmorton et al.	526	220	
	BI	4,435,553	03/06/84	Throckmorton et al.	526	201	
	BJ	4,452,960	06/05/84	Throckmorton	526	201	
	BK	4,499,249	02/12/85	Nakagawa et al.	526	206	
	BL	4,501,865	02/26/85	König et al.	526	71	
	BM	4,508,881	04/02/85	Throckmorton	526	201	
	BN	4,535,136	08/13/85	Wheland	526	214	
	BO	4,588,796	05/13/86	Wheland	526	214	
	BP	4,626,608	12/02/86	Scherer, Jr. et al.	570	134	
	BQ	4,714,747	12/22/87	Bruzzzone et al.	526	64	
	BR	4,736,004	04/05/88	Scherer, Jr. et al.	526	206	
	BS	4,900,777	02/13/90	Ball et al.	524	819	
	BT	4,946,936	08/07/90	Moggi et al.	528	392	
	BU	4,948,844	08/14/90	Nakahara et al.	525	356	
	BV	4,950,724	08/21/90	Malanga et al.	526	144	
	BW	5,032,656	07/16/91	Mares et al.	526	255	
	BX	5,105,047	04/14/92	Waller	585	515	
	BY	5,135,998	08/04/92	Mares et al.	526	206	

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Not Yet Assigned  
107538800

APPLICANT

Shaffer et al.

FILING DATE

GROUP

June 14, 2005

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5,162,445	11/10/92	Powers et al.	525	333.4	
	CB	5,182,342	01/26/93	Feiring et al.	526	206	
	CC	5,281,680	01/25/94	Grot	526	243	
	CD	5,310,870	05/10/94	Peavy	528	392	
	CE	5,417,930	05/23/95	McDonald, Jr. et al.	422	131	
	CF	5,448,001	09/05/95	Baird	526	134	
	CG	5,459,212	10/17/95	Krespan et al.	526	89	
	CH	5,478,905	12/26/95	Anolick et al.	526	254	
	CI	5,494,984	02/27/96	Funaki et al.	526	206	
	CJ	5,527,870	06/18/96	Maeda et al.	526	348.7	
	CK	5,552,500	09/03/96	Peavy	526	206	
	CL	5,608,002	03/04/97	Kubo et al.	524	795	
	CM	5,618,894	04/08/97	DeSimone et al.	526	89	
	CN	5,624,878	04/29/97	Devore et al.	502	152	
	CO	5,637,663	06/10/97	Anolick et al.	526	254	
	CP	5,650,483	07/22/97	Malik et al.	528	402	
	CQ	5,654,450	08/05/97	Malik et al.	549	511	
	CR	5,663,251	09/02/97	Kato et al.	526	206	
	CS	5,663,255	09/02/97	Anolick et al.	526	254	
	CT	5,665,838	09/09/97	Peavy	526	255	
	CU	5,668,250	09/16/97	Malik	528	402	
	CV	5,668,251	09/16/97	Malik et al.	528	402	
	CW	5,674,957	10/07/97	DeSimone et al.	526	89	
	CX	5,688,838	11/18/97	Abusleme et al.	522	33	
	CY	5,703,194	12/30/97	Malik et al.	528	70	

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U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5,728,783	03/17/98	Falchi et al.	526	124.2	
	DB	5,780,565	07/14/98	Clough et al.	526	206	
	DC	5,789,504	08/04/98	Ihara et al.	526	206	
	DD	5,807,977	09/15/98	Malik et al.	528	402	
	DE	5,821,311	10/13/98	Mosbach et al.	526	201	
	DF	5,872,198	02/16/99	Mosbach et al.	526	221	
	DG	5,939,501	08/17/99	DeSimone et al.	526	89	
	DH	5,939,502	08/17/99	DeSimone et al.	526	89	
	DI	5,959,050	09/28/99	Mosbach et al.	526	201	
	DJ	5,981,673	11/09/99	DeSimone et al.	526	89	
	DK	5,990,251	11/23/99	Gelus	526	125.7	
	DL	6,037,483	03/14/00	Malik et al.	549	511	
	DM	6,107,423	08/22/00	Wheland et al.	526	249	
	DN	6,111,062	08/29/00	Shirota et al.	528	402	
	DO	6,133,389	10/17/00	Anolick et al.	526	206	
	DP	6,225,367	05/01/01	Chaouk et al.	521	149	
	DQ	6,228,963	05/08/01	Wheland et al.	526	247	
	DR	6,303,715	10/16/01	Kim et al.	526	128	
	DS	6,306,989	10/23/01	Bloom et al.	526	200	
	DT	6,335,408	01/01/02	Russo et al.	526	253	
	DU	6,337,373	01/08/02	Formaro et al.	525	193	
	DV	6,346,587	02/12/02	Krüger et al.	526	206	
	DW	6,372,838	04/16/02	Rao et al.	524	462	
	DX	6,380,351	04/30/02	Malik et al.	528	402	
	DY	6,399,729	06/04/02	Farnham et al.	526	255	

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				2003B133C		Not Yet Assigned 104538860	
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U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA	6,403,539	06/11/02	Marchionni et al.	508	406	
	EB	6,417,314	07/09/02	Malik et al.	528	60	
	EC	6,423,798	07/23/02	Wheland et al.	526	206	
	ED	6,444,768	09/03/02	Webb et al.	526	237	
	EE	6,448,368	09/10/02	Malik et al.	528	402	
	EF	6,455,650	09/24/02	Lipian et al.	526	171	
	EG	6,469,116	10/22/02	Maccone et al.	526	247	
	EH	6,469,185	10/22/02	Russo et al.	549	455	
	EI	6,486,280	11/26/02	Anolick et al.	526	243	
	EJ	2001/0012880	08/09/01	Wheland et al.	526	249	
	EK	2001/0018144	08/30/01	Watakabe et al.	429	33	
	EL	2002/0002219	01/03/02	Bloom et al.	524	11	
	EM	2002/0028884	03/07/02	Formaro et al.	525	193	
	EN	2002/0032291	03/14/02	Farnham et al.	526	227	
	EO	2002/0052454	05/02/02	Lipian et al.	526	171	
	EP	2002/0055580	05/09/02	Lorah et al.	524	445	
	EQ	2002/0055581	05/09/02	Lorah et al.	524	445	
	ER	2002/0055599	05/09/02	Slone	526	286	
	ES	2002/0065383	05/30/02	Maccone et al.	526	247	
	ET	2002/0086908	07/04/02	Chou et al.	516	98	
	EU	2002/0132910	09/19/02	Rao et al.	524	544	
	EV	2002/0151664	10/17/02	Farnham et al.	526	247	
	EW	2002/0183457	12/05/02	Hintzer et al.	525	326.2	
	EX	2002/0183471	12/05/02	Russo et al.	526	247	
	EY	2003/0023013	01/30/03	Lipian et al.	526	171	
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	FA	DE10061727	06/13/02	Germany	C08F	10/10	
	FB	EP0076511	04/13/83	Europe	C08F	14/06	
	FC	EP0271243	06/15/88	Europe	C08F	214/26	
	FD	RU 2097122 C1	11/27/97	Russia	B01J	19/18	
	FE	RU 2209213 C1	07/27/03	Russia	C08F	210/12	
	FF	SU 1627243 A1	02/15/91		B01J	19/18	
	FG	WO93/21241	10/28/93	PCT	C08F	210/12	
	FH	WO94/17109	08/04/94	PCT	C08F	14/18	
	FI	WO96/24625	08/15/96	PCT	C08F	214/26	
	FJ	WO99/50209	10/07/99	PCT	C07C	23/08	
	FK	WO00/04061	01/27/00	PCT	C08F	10/10	
	FL	WO00/47641	08/17/00	PCT	C08F	14/18	
	FM	WO00/53682	09/14/00	PCT	C09D	4/00	
	FN	WO01/49757	07/12/01	PCT	C08F	214/44	
	FO	WO01/49758	07/12/01	PCT	C08F	214/22	
	FP	WO01/49760	07/12/01	PCT	C08F	214/28	
	FQ	WO02/051875	07/04/02	PCT	C08F	2/06	
	FR	WO02/096964	12/05/02	PCT	C08F	10/10	
	FS	WO02/34794	05/02/02	PCT	C08F	2/00	
	FT	WO2004058825	07/15/04	PCT (2004B133D)	C08F		
	FU	WO2004058827	07/15/04	PCT (2004B133A)	C08F	2/06	
	FV	WO2004058828	07/15/04	PCT (2004B133)	C08F	4/12	
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FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	GA	WO2004058829	07/15/04	PCT (2004B133F)	C08F	4/44		
	GB	WO2004058835	07/15/04	PCT (2004B133B)	C08F	236/02		
	GC	WO2004058836	07/15/04	PCT (2004B133C)	C08F	236/02		
	GD	WO2004067577	07/15/04	PCT (2004B133E)	C08F			
OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)								
	GE	USSN: 11/010,092, filed December 10, 2004, entitled "Polymers with New Sequence Distributions" (2003B133C/2)						
	GF	USSN: 11/009,660, filed December 10, 2004, entitled "Halogenated Polymers with New Sequence Distributions" (2003B133C/3)						
	GG	Industrial and Engineering Chemistry, January, 1949, 41, pages 135-136, "Emulsion Polymerizations at Low Temperatures. Isobutylene and Isobutylene-Butadiene Mixtures", G. B. Bachman et al., Purdue University						
	GH	W. A. Thaler et al., entitled "High-Molecular-Weight, High-Unsaturation Copolymers of Isobutylene and Conjugated Dienes", 49(4) Rubber Chemistry & Technology, 960-966 (1976)						
	GI	Organic Chemistry, SIXTH EDITION, Morrison and Boyd, Prentice-Hall, entitled "Ionic Polymerization. Living Polymers", pages 1084-1085 (Englewood Cliffs, New Jersey 1992)						
	GJ	H. C. Wang et al., Elastomerics, entitled "Functionalized PMS/IB Copolymers Offer Wide Range of Properties", 1992, Atlanta, GA.						
	GK	Gyor et al., J. Macromol. Sci.-Pure Appl. Chem. A31(12), entitled "Polyisobutylene-Based Thermoplastic Elastomers. I. Synthesis and Characterization of Polystyrene-Polyisobutylene-Polystyrene Triblock Copolymers, pages 2055-2065, Massachusetts, 1994.						
	GL	I. Orszagh et al., J. Phys. Org. Chem., Vol. 8, entitled "Living Carbocationic Copolymerizations. I. Synthesis and Characterization of Isobutylene/p-Methystyrene Copolymers", Ohio, pages 258-272, 1995.						
	GM	Chemical Microstructure of Polymer Chains, J.L. Koenig, Wiley-Interscience, entitled "Determination of Structure-Property Relations in Polymers", New York, 1980, pages 1-8						
	GN	Polymer Sequence Determination: Carbon-13 NMR Method, entitled "A Survey of Carbon-13 NMR Studies of Vinyl Homopolymers and Copolymers" J.C. Randall, Academic Press, 1977, New York, pages 103-146						
	GO	Cationic Polymerization of Olefins: A Critical Inventory, J. P. Kennedy, Wiley-Interscience, New York, 1975 pages 10-13 "Cationic Polymerizations: Past, Present, and Future" and pages 86-137 "The Organization of Cationically Polymerizable Olefins".						
	GP	Carbocationic Polymerization, J.P. Kennedy, E. Marechal, Wiley-Interscience, New York, 1982, pages 318-319						
EXAMINER				DATE CONSIDERED				
<b>*EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next comment to applicant								

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	HA							
	HB							
	HC							
	HD							
	HE							
	HF							
	HG							
	HH							
	HI							
	HJ							
	HK							
	HL							
	HM							
	HN							
	HO							
	HP							

## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

HQ	Abstract for DE10061727, June 13, 2002 entitled "Manufacture of Polyisobutenes with High Content of Unsaturated End Groups", 2 pages.
HR	Abstract for EP76511, April 13, 1983, entitled "Aqueous Copolymer Dispersions and Their Use", 3 pages.
HS	Derwent- Abstract for RU 2097122 C1, Dobrovinskii et al., November 27, 1997, 3 pages.
HT	Abstract for RU2209213, July 27, 2003, entitled "Production of Butyl Rubber with Separation of Reaction Mixture in a Hydrocyclone and In-Process Recycling", Dobrovinskii et al., 2 pgs.
HU	Derwent Abstract for SU 1627243 A, Khismatull et al., February 15, 1991.

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